

Humacao Area, Puerto Rico Eastern Part: Detailed Soil Map Legend

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Construction Materials and Excavating

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
AcC: Aceitunas-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (limited) ~slope (slightly limited)	Very limited ~too clayey (very limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)
Ad: Aguadilla-----	Not limited	Probable source ~possible source (thickest layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~too acid (slightly limited)	Very limited ~cutbanks cave (very limited)
Ag: Aguadilla-----	Moderately limited ~wetness (moderately limited)	Probable source ~excess fines (thickest layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~excess salts (moderately limited) ~wetness (moderately limited)	Very limited ~cutbanks cave (very limited) ~wetness (very limited)
AmB: Amelia-----	Moderately limited ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too clayey (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (moderately limited)

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
AmC2: Amelia-----	Moderately limited ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too clayey (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (moderately limited) ~slope (slightly limited)
An: Arenales-----	Not limited	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)
Ar: Arenales-----	Not limited	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)
Ba: Bajura-----	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess salts (very limited) ~too clayey (very limited) ~wetness (limited)	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (moderately limited)
Bc: Bajura-----	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~wetness (limited)	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (moderately limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
CbD2: Caguabo-----	Very limited ~depth to bedrock (very limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
CbF2: Caguabo-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
CdB: Candelero-----	Limited ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limited ~wetness (limited) ~too sandy (moderately limited) ~too clayey (moderately limited)	Very limited ~wetness (very limited) ~cutbanks cave (slightly limited)
CdC2: Candelero-----	Limited ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limited ~wetness (limited) ~too sandy (moderately limited) ~too clayey (moderately limited)	Very limited ~wetness (very limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Ce: Cartagena-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess salts (very limited) ~too clayey (very limited) ~excess sodium (very limited)	Very limited ~cutbanks cave (very limited) ~wetness (limited) ~too clayey (limited)
Cf: Catano-----	Not limited	Probable source ~possible source (thickest layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~excess lime (limited)	Very limited ~cutbanks cave (very limited)
CgC2: Cayagua-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited) ~too sandy (limited) ~slope (slightly limited)	Very limited ~wetness (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
CgD2: Cayagua-----	Very limited ~wetness (very limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~wetness (very limited) ~too sandy (limited)	Very limited ~wetness (very limited) ~slope (very limited) ~too clayey (moderately limited)
ClB: Coamo-----	Very limited ~low strength (very limited) ~shrink-swell (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~area reclaim (very limited) ~too clayey (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
CLC: Coamo-----	Very limited ~low strength (very limited) ~shrink-swell (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~area reclaim (very limited) ~too clayey (limited) ~slope (slightly limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited) ~slope (slightly limited)
Co: Coloso-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
Cr: Coloso-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
Cs: Corcega-----	Moderately limited ~wetness (moderately limited)	Probable source ~excess fines (thickest layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too sandy (moderately limited) ~wetness (moderately limited) ~too clayey (slightly limited)	Very limited ~cutbanks cave (very limited) ~wetness (very limited) ~flooding (moderately limited)

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
DaC: Daguao variant-----	Very limited ~low strength (very limited) ~depth to bedrock (moderately limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
DcE2: Daguao-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (limited)
DeC2: Descalabrado-----	Very limited ~depth to bedrock (very limited) ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
DeE2: Descalabrado-----	Very limited ~depth to bedrock (very limited) ~shrink-swell (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (moderately limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
DgF2:					
Descalabrado-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (moderately limited)
Guayama-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
DrF:					
Descalabrado-----	Very limited ~slope (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (moderately limited)
Rock land-----	Not rated	Not rated	Not rated	Not rated	Not rated
FaC:					
Fajardo-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited) ~wetness (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
FaC2: Fajardo-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited) ~wetness (slightly limited)
Fo: Fortuna-----	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited) ~wetness (slightly limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
FrA: Fraternidad-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~small stones (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)
FrB: Fraternidad-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~small stones (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)
Gm: Guamani-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~small stones (very limited) ~area reclaim (very limited) ~too sandy (moderately limited)	Moderately limited ~flooding (moderately limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
GuE2: Guayabota-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~wetness (very limited)
GvF: Guayabota-----	Very limited ~slope (very limited) ~low strength (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~wetness (very limited)
Ciales-----	Very limited ~low strength (very limited) ~slope (very limited) ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (very limited) ~wetness (limited)	Very limited ~wetness (very limited) ~slope (very limited) ~too clayey (moderately limited)
Picacho-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
GyC2: Guayama variant-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~too clayey (very limited)	Limited ~soft bedrock <40" (limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
HmB: Humacao-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too sandy (moderately limited) ~too clayey (moderately limited)	Slightly limited ~cutbanks cave (slightly limited)
HtE2: Humatas-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
HtF2: Humatas-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
HuF:					
Humatas-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
Stony land-----	Not rated	Not rated	Not rated	Not rated	Not rated
InE2:					
Ingenio-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (moderately limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
JaB:					
Jacana-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~depth to bedrock (very limited)	Limited ~too clayey (limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)
JaC2:					
Jacana-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~depth to bedrock (very limited) ~slope (slightly limited)	Limited ~too clayey (limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
JgE2: Jagueyes-----	Very limited ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too acid (limited) ~too clayey (moderately limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited)
JuC: Junquitos-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~depth to bedrock (very limited) ~too acid (slightly limited)	Moderately limited ~too clayey (moderately limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)
LeE2: Limones-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LoC2: Lirios-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited)	Limited ~too clayey (limited) ~cutbanks cave (slightly limited)
LrE2: Lirios-----	Very limited ~low strength (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
LsD:					
Los guineos-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LsE2:					
Los guineos-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LsF2:					
Los guineos-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LyF:					
Los guineos-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Yunque-----	Very limited ~low strength (very limited) ~slope (limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (very limited) ~too acid (moderately limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
MaB: Mabi-----	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~wetness (slightly limited)	Very limited ~wetness (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
MaC2: Mabi-----	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~wetness (slightly limited) ~slope (slightly limited)	Very limited ~wetness (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
MaD2: Mabi-----	Very limited ~shrink-swell (very limited) ~low strength (very limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (very limited) ~wetness (slightly limited)	Very limited ~wetness (very limited) ~slope (very limited) ~too clayey (limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
McA: Machete-----	Not limited	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Slightly limited ~too sandy (slightly limited) ~too acid (slightly limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited) ~too clayey (moderately limited)
McB: Machete-----	Not limited	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too sandy (slightly limited) ~too acid (slightly limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited) ~too clayey (moderately limited)
Me: Maunabo-----	Very limited ~low strength (very limited) ~shrink-swell (limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited) ~wetness (slightly limited)	Very limited ~wetness (very limited) ~flooding (moderately limited) ~too clayey (moderately limited)
MlC: Mayo-----	Not limited	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limited ~too sandy (limited) ~too acid (slightly limited)	Very limited ~cutbanks cave (very limited)
MrB: Meros-----	Not limited	Probable source	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~excess lime (slightly limited)	Very limited ~cutbanks cave (very limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
MuD2: Mucara-----	Very limited ~depth to bedrock (very limited) ~shrink-swell (very limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~too clayey (very limited) ~slope (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)
MuE2: Mucara-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)
NaE2: Naranjito-----	Very limited ~depth to bedrock (very limited) ~low strength (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~depth to bedrock (limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
NaF2: Naranjito-----	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~depth to bedrock (limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
PaE2: Pandura-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
PaF2: Pandura-----	Very limited ~slope (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
PdF: Pandura-----	Very limited ~slope (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
Very stony land-----	Not rated	Not rated	Not rated	Not rated	Not rated
PeC2: Parcelas-----	Very limited ~low strength (very limited) ~shrink-swell (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (limited) ~slope (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
PlB: Paso seco-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~area reclaim (very limited) ~too clayey (very limited) ~small stones (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)
PmD2: Patillas-----	Slightly limited ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too sandy (limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
PmE2: Patillas-----	Very limited ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too sandy (limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
Pn: Pinones-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited) ~too acid (slightly limited)	Very limited ~wetness (very limited) ~flooding (moderately limited) ~too clayey (moderately limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Po: Poncena-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (moderately limited)
PrC2: Pozo blanco-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limited ~excess lime (limited) ~too sandy (slightly limited) ~slope (slightly limited)	Slightly limited ~cutbanks cave (slightly limited) ~slope (slightly limited)
Re: Reilly-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~small stones (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~wetness (limited) ~flooding (moderately limited)
Rp: Reparada-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited)	Very limited ~wetness (very limited) ~flooding (moderately limited) ~too clayey (moderately limited)
RrB: Rio arriba-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
RrC2: Rio arriba-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)
SaE2: Sabana-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (moderately limited)
SaF2: Sabana-----	Very limited ~slope (very limited) ~low strength (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~too clayey (moderately limited)
Sm: Salt water marsh-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited) ~excess salts (very limited)	Very limited ~wetness (very limited) ~flooding (moderately limited)
Ta: Talante-----	Slightly limited ~wetness (slightly limited)	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~too acid (slightly limited) ~wetness (slightly limited)	Very limited ~cutbanks cave (very limited) ~wetness (very limited) ~flooding (moderately limited)

Humacao Area, Puerto Rico Eastern Part: Detailed Soil Map Legend

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
TeE: Teja-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~slope (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
Tf: Tidal flats-----	Limited ~wetness (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess salts (very limited) ~wetness (limited)	Very limited ~wetness (very limited) ~flooding (moderately limited)
Ts: Tidal swamp-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited) ~excess salts (very limited)	Very limited ~wetness (very limited) ~flooding (moderately limited)
Tt: Toa-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~flooding (moderately limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
UpF: Picacho-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Utuaado-----	Very limited ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~dense layer (limited) ~too sandy (limited)	Very limited ~slope (very limited) ~dense layer (limited) ~cutbanks cave (slightly limited)
Stony rockland-----	Not rated	Not rated	Not rated	Not rated	Not rated
Va: Vayas-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
Vc: Vayas-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
VeB: Vega alta-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
VeC: Vega alta-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited) ~slope (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)
VgA: Vega baja-----	Very limited ~low strength (very limited) ~shrink-swell (limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~wetness (slightly limited)	Very limited ~wetness (very limited) ~too clayey (limited) ~flooding (moderately limited)
VlC: Via-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~area reclaim (very limited) ~too clayey (limited) ~small stones (slightly limited)	Very limited ~cutbanks cave (very limited) ~too clayey (slightly limited)
VmC: Vieques-----	Limited ~depth to bedrock (limited)	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Very limited ~too sandy (very limited) ~small stones (very limited) ~depth to bedrock (moderately limited)	Very limited ~cutbanks cave (very limited) ~depth to bedrock (limited) ~slope (slightly limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
VmE2: Vieques-----	Very limited ~slope (very limited) ~depth to bedrock (limited)	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Very limited ~too sandy (very limited) ~small stones (very limited) ~slope (very limited)	Very limited ~cutbanks cave (very limited) ~slope (very limited) ~depth to bedrock (limited)
Vs: Vives-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too clayey (moderately limited) ~small stones (slightly limited)	Slightly limited ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
VvA: Vives-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too clayey (moderately limited) ~small stones (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
VvB: Vives-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too clayey (moderately limited) ~small stones (slightly limited)	Moderately limited ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
Vw: Vivi-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Slightly limited ~too acid (slightly limited) ~too sandy (slightly limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)
Wa: Wet alluvial land-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited)	Very limited ~wetness (very limited) ~flooding (moderately limited)

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
YuF2: Yunes-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)